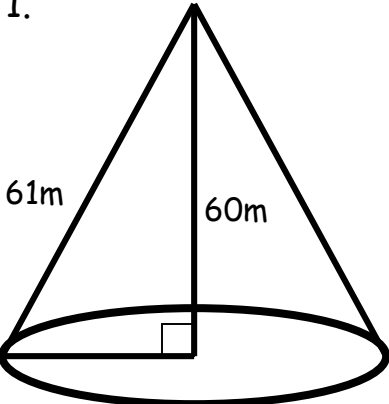


Calculate the volume, lateral and total area of each figure. Be sure to use the correct formulas!

1.



h: \_\_\_\_\_

l: \_\_\_\_\_

r: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

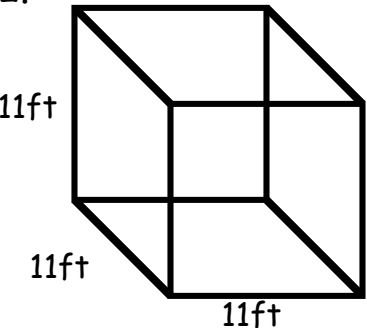
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

2.



p: \_\_\_\_\_

B: \_\_\_\_\_

h: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

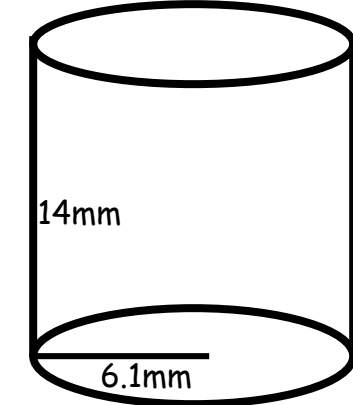
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

3.



h: \_\_\_\_\_

r: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

SPHERE

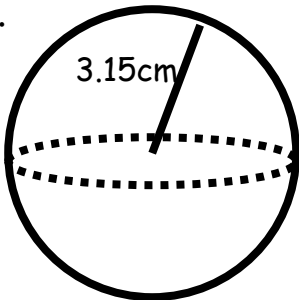
Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Calculate the volume, lateral and total area of each figure. Be sure to use the correct formulas!

4.



r: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

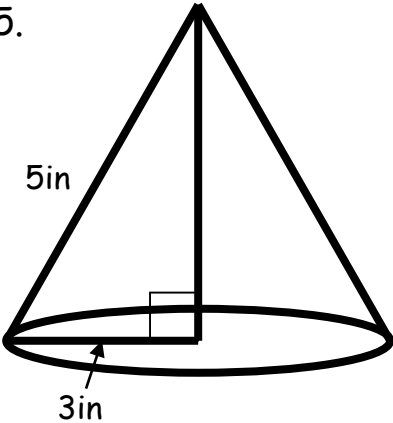
CYLINDER      CONE

SPHERE

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

5.



h: \_\_\_\_\_

l: \_\_\_\_\_

r: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

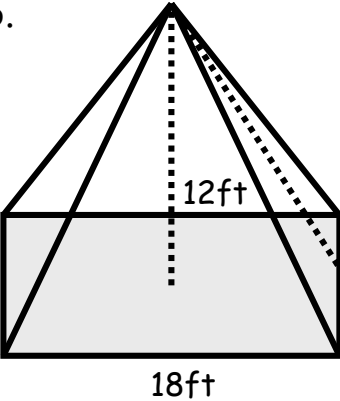
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

6.



h: \_\_\_\_\_

l: \_\_\_\_\_

r: \_\_\_\_\_

p: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

SPHERE

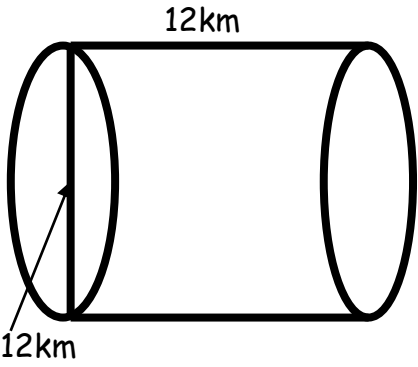
Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Calculate the volume, lateral and total area of each figure. Be sure to use the correct formulas!

7.



A cylinder is shown with a horizontal length of 12km. The left circular face has a radius of 12km, indicated by a vertical line from the center to the top edge.

h: \_\_\_\_\_

r: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

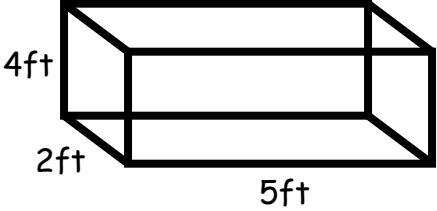
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

8.



A rectangular prism is shown with a length of 5ft, a width of 2ft, and a height of 4ft.

p: \_\_\_\_\_

B: \_\_\_\_\_

h: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

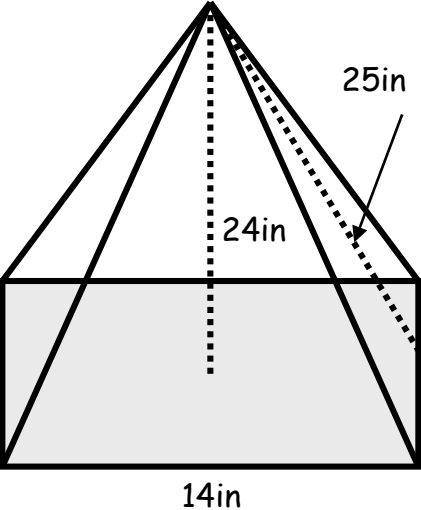
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

9.



A square pyramid is shown with a square base of side length 14in. A dashed vertical line from the apex to the center of the base represents the height, labeled 24in. A dashed line along one of the triangular faces from the apex to the midpoint of the base represents the slant height, labeled 25in.

h: \_\_\_\_\_

l: \_\_\_\_\_

r: \_\_\_\_\_

p: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

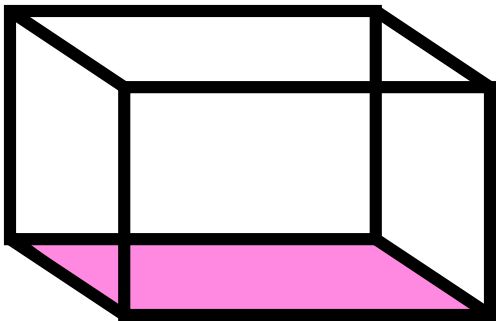
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Problem 1 -



p: \_\_\_\_\_

B: \_\_\_\_\_

h: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

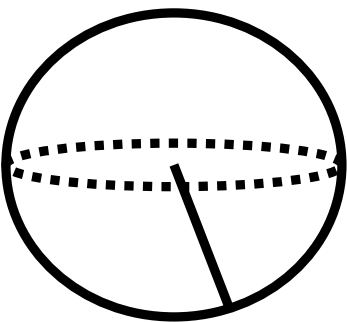
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Problem 2 -



r: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

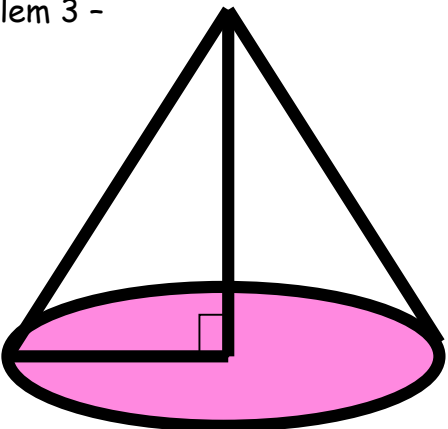
CYLINDER      CONE

SPHERE

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Problem 3 -



h: \_\_\_\_\_

l: \_\_\_\_\_

r: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

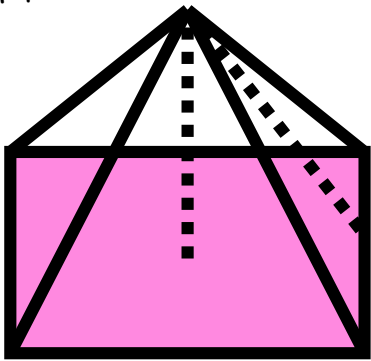
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Problem 4 -



h: \_\_\_\_\_

l: \_\_\_\_\_

r: \_\_\_\_\_

p: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

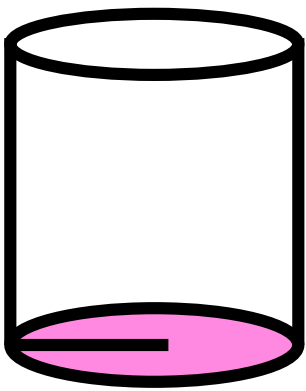
SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Problem 5 -



h: \_\_\_\_\_

r: \_\_\_\_\_

B: \_\_\_\_\_

CIRCLE THE SOLID

PRISM      PYRAMID

CYLINDER      CONE

SPHERE

Lateral Area: \_\_\_\_\_

Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

**Directions: Complete each word problem. Label answers. Complete on back.**

1. The radius of the Earth is approximately 6380km. Assume that the Earth is a perfect sphere.

a) Calculate the surface area and volume.

b) If approximately 70% of the Earth's surface is covered by water, how many square kilometers of water cover the planet? (HINT: Use one of the values you found in part a)
2. A solid metal sphere with a radius of 8 cm is melted down and recast as a solid cone with a radius of 8cm. Find the height of the cone.
3. A local ice cream shop has a "to-go" service for it's customers. A small size ice cream in a square pyramid container and a large size ice cream comes in a prism shaped container.

a) What is the volume of the small container? What is the volume of the large container?

b) How many small containers do you have to buy to equal the amount of ice cream in a large container?

c) Which container gives you more ice cream for your money? Small: \$2.75 Large: \$6.25